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Canadian Fertilizer Consumption, Shipments and Trade 1989/90

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INTRODUCTION

There is a need for a better understanding of the method of collection and of the assumptions behind different data series regarding fertilizer distribution and use. This paper, the sixth issued in this series, presents the most current statistics available, describing the sources and identifying possible discrepancies.

Agriculture Canada does not conduct any surveys of its own and therefore cannot assume responsibility for the actual figures themselves. Those contributing to this paper, however, do represent the most reliable sources currently available. Any questions concerning individual tables should be addressed to the organization or government agency responsible. (The relevant addresses and phone numbers are listed in the appendix).

1. CONSUMPTION OF FERTILIZER BY FERTILIZER TYPE

The most reliable sources on fertilizer consumption are regional fertilizer associations. These associations conduct surveys of all the principal companies engaged in fertilizer retailing within a particular province. For western Canada, statistics are also obtained on shipments from the basic manufacturers to estimate the volume handled by those not affiliated with the retail companies surveyed. It is estimated that over 95 percent of all fertilizer sales are captured by these regional association surveys.

The fertilizer consumption figures represent the volume sold by retailers within a particular province. This may not correspond exactly to all on-farm consumption in that province, as there is some inter-provincial and international movement of fertilizer between retailer and farm. It may be assumed, however, that any net movement is not significant in relation to the overall provincial total.

The fertilizer consumption statistics for all provinces are listed according to the materials used in the preparation of the fertilizer. There are no data which indicate what proportion of this material was utilized in the granular form and what proportion was utilized in the preparation of liquid fertilizers.

In western Canada, the Western Canada Fertilizer Association (WCFA) figures for potash consumption were significantly less than those reported to have been shipped from potash mines. It is assumed that this discrepancy is due to a number of individual fertilizer dealers ordering their potash directly from the mines, rather than through their particular company (only the retail companies submit statistics to WCFA, not individual dealers).

For the purposes of the consumption tables, potash use will be assumed to be mine shipments reported by the Potash and Phosphate Institute rather than that given by WCFA. The figure for "muriate of potash" is derived by subtracting the potash contained in "other mixtures" from the total potash shipped.

Table 1.1 **Fertilizer Sold and Nutrient Content, Atlantic Provinces, Year Ended June 30, 1990**

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Urea	11,303	5,199		
Ammonium Sulphate	3,173	666		
Ammonium Nitrate	24,643	8,379		
Phosphate:				
Diammonium Phosphate	44,855	8,074	20,633	
Single Superphosphate	342		68	
Triple Superphosphate	1,308		602	
Potash:				
Muriate of Potash	38,009			22,805
Potassium Sulphate	173			88
Potassium Magnesium Sulphate	3,227			710
Potassium Nitrate	84	11		34
Other	1,087	27		
Filler	17,028			
Borate	176			
TOTAL	145,408	22,356	21,303	23,637

Source: The Atlantic Fertilizer Institute

Table 1.2 Fertilizer Sold and Nutrient Content, Quebec
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Urea	107,703	49,543		
Ammonium Sulphate	5,181	1,088		
Ammonium Nitrate	33,195	11,286		
Anhydrous Ammonia	2,775	2,276		
Nitrogen Solutions	10,999	3,960		
Other Nitrogen	229	50		
Calcium Ammonium Nitrate	9,786	2,618		
Phosphate:				
Monoammonium Phosphate	14,601	1,606	7,593	
Diammonium Phosphate	126,767	22,818	58,313	
Single Superphosphate	2,824		565	
Triple Superphosphate	15,023		6,911	
Other Phosphate	35			
Potash:				
Muriate of Potash	136,244			83,109
Potassium Sulphate	1,601			801
Potassium Magnesium Sulphate	25,837			5,684
Other fert. material	14,799			
TOTAL	~~492,800~~ 507,599	95,245	73,381	89,593

Source: Quebec Fertilizer Manufacturers' Association

Table 1.3 Fertilizer Sold and Nutrient Content, Ontario
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Urea	182,314	83,734		
Ammonium Sulphate	1,983	416		
Ammonium Nitrate	62,542	20,450		
Anhydrous Ammonia	30,391	24,921		
Nitrogen Solutions	123,404	35,521		
Phosphate:				
Monoammonium Phosphate	87,081	9,576	43,622	
Diammonium Phosphate	84,508	15,211	38,873	
Single Superphosphate	1,702		340	
Triple Superphosphate	31,527		14,492	
10-34-0	1,843	184	627	
Potash:				
Muriate of Potash	266,384			161,075
Potassium Sulphate	5,666			2,835
Potassium Magnesium Sulphate	9,678			2,098
TOTAL	889,023	190,013	97,954	166,008

Source: The Fertilizer Institute of Ontario

Table 1.4 **Fertilizer Sold and Nutrient Content, Eastern Canada Year Ended June 30, 1990**

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Urea	301,320	138,477		
Ammonium Sulphate	10,337	2,170		
Ammonium Nitrate	120,380	40,115		
Anhydrous Ammonia	33,166	27,197		
Nitrogen Solutions	134,403	39,481		
Other Nitrogen	229	50		
Calcium Ammonium Nitrate	9,786	2,618		
Phosphate:				
Monoammonium Phosphate	101,682	11,182	51,215	
Diammonium Phosphate	256,130	46,103	117,819	
Single Superphosphate	4,868		973	
Triple Superphosphate	47,858		22,004	
10-34-0	1,843	184	627	
Other Phosphate	35			
Potash:				
Muriate of Potash	440,637			266,989
Potassium Sulphate	7,440			3,724
Potassium Magnesium Sulphate	38,742			8,492
Potassium Nitrate	84	11		34
Other Fertilizer Materials	33,090 ~~18,291~~	27		
TOTAL	1,542,030 ~~1,527,231~~	307,614	192,638	279,239

Source: This table is a summation of Tables 1.1, 1.2 and 1.3

Table 1.5 **Fertilizer Sold and Nutrient Content, Manitoba**
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Nitrogen:				
Urea	150,559	69,257		
Ammonium Sulphate	23,055	4,842		
Ammonium Nitrate	52,889	17,982		
Anhydrous Ammonia	123,590	101,344		
Nitrogen Solutions	42,919	12,017		
Phosphate:				
Monoammonium Phosphate	182,926	20,122	95,122	
Potash: (1)				
Muriate of Potash	40,120			24,473
Other Fertilizer Materials (2)	46,696			
TOTAL	662,754	232,597 (3)	104,192 (3)	24,473

Source: Western Canada Fertilizer Association

(1) Potash figures are derived from shipments reported by the Potash and Phosphate Institute

(2) 'Other Fertilizer Materials' includes phosphate and sulphur solutions, mixed fertilizer materials and element sulphur and sulphate fertilizers not elsewhere shown. It is not possible to determine the nitrogen, phosphate and potash content of 'Other Fertilizer Materials' from the information available.

(3) Individual nutrient contents do not add up to total since it is not possible to determine the nutrient content of 'Other Fertilizer Materials' from the information available.

Table 1.6 Fertilizer Sold and Nutrient Content, Saskatchewan
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Nitrogen:				
Urea	256,153	117,830		
Ammonium Sulphate	46,023	9,665		
Ammonium Nitrate	26,655	9,063		
Anhydrous Ammonia	103,683	85,020		
Nitrogen Solutions	9,760	2,733		
Phosphate:				
Monoammonium Phosphate	260,358	28,639	135,386	
Potash: (1)	..			
Muriate of Potash	20,286			12,374
Other Fertilizer Materials (2)	76,719			
TOTAL	799,637	274,194 (3)	149,461 (3)	12,374

Source: Western Canada Fertilizer Association

(1) Potash figures provided by the WCFA were adjusted upwards by 4,000 tonnes to partially reflect the increse in shipments reported by the Potash and Phosphate Institute.

(2) 'Other Fertilizer Materials' includes phosphate and sulphur solutions, mixed fertilizer materials and element sulphur and sulphate fertilizers not elsewhere shown. It is not possible to determine the nitrogen, phosphate and potash content of 'Other Fertilizer Materials' from the information available.

(3) Individual nutrient contents do not add up to total since it is not possible to determine the nutrient content of 'Other Fertilizer Materials' from the information available.

Table 1.7 **Fertilizer Sold and Nutrient Content, Alberta**
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Nitrogen:				
Urea	289,351	133,101		
Ammonium Sulphate	62,786	13,185		
Ammonium Nitrate	61,819	21,018		
Anhydrous Ammonia	165,673	135,852		
Nitrogen Solutions	41,379	11,586		
Phosphate:				
Monoammonium Phosphate	286,174	32,910	147,380	
Potash: (1)				
Muriate of Potash	59,689			36,410
Other Fertilizer Materials (2)	25,628			
TOTAL	992,499	352,218 (3)	154,816 (3)	36,410

Source: Western Canada Fertilizer Association

(1) Potash figures are derived from shipments reported by the Potash and Phosphate Institute

(2) 'Other Fertilizer Materials' includes phosphate and sulphur solutions, mixed fertilizer materials and element sulphur and sulphate fertilizers not elsewhere shown. It is not possible to determine the nitrogen, phosphate and potash content of 'Other Fertilizer Materials' from the information available.

(3) Individual nutrient contents do not add up to total since it is not possible to determine the nutrient content of 'Other Fertilizer Materials' from the information available.

Table 1.8 Fertilizer Sold and Nutrient Content, British Columbia
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Nitrogen:				
Urea	31,102	14,307		
Ammonium Sulphate	8,510	1,787		
Ammonium Nitrate	10,266	3,490		
Anhydrous Ammonia	7,810	6,404		
Phosphate:				
Monoammonium Phosphate	20,457	2,250	10,433	
Potash: (1)				
Muriate of Potash	12,045			7,347
Other Fertilizer Materials (2)	17,832			
TOTAL	108,022	29,669 (3)	12,470 (3)	7,347

Source: Western Canada Fertilizer Association

(1) Potash figures are derived from shipments reported by the Potash and Phosphate Institute

(2) 'Other Fertilizer Materials' includes phosphate and sulphur solutions, mixed fertilizer materials and element sulphur and sulphate fertilizers not elsewhere shown. It is not possible to determine the nitrogen, phosphate and potash content of 'Other Fertilizer Materials' from the information available.

(3) Individual nutrient contents do not add up to total since it is not possible to determine the nutrient content of 'Other Fertilizer Materials' from the information available.

Table 1.9 Fertilizer Sold and Nutrient Content, Western Canada
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Nitrogen:				
Urea	727,165	334,496		
Ammonium Sulphate	140,374	29,479		
Ammonium Nitrate	151,629	51,554		
Anhydrous Ammonia	400,756	328,620		
Nitrogen Solutions	94,058	26,336		
Phosphate:				
Monoammonium Phosphate	749,915	83,922	388,320	
Potash:				
Muriate of Potash	132,140			80,605
Other Fertilizer Materials	166,875			
TOTAL	2,562,912	888,678	420,939	80,605

Source: Western Canada Fertilizer Association

This table is a summation of Tables 1.5, 1.6, 1.7, and 1.8

Table 1.10 **Fertilizer Sold and Nutrient Content, All Canada**
Year Ended June 30, 1990

Fertilizer Material	Quantity	Nutrient Content		
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)
		(All figures in metric tonnes)		
Nitrogen:				
Urea	1,028,485	472,973		
Ammonium Sulphate	150,711	31,649		
Ammonium Nitrate	272,009	91,669		
Anhydrous Ammonia	433,922	355,816		
Nitrogen Solutions	228,461	65,817		
Other Nitrogen	229	50		
Calcium Ammonium Nitrate	9,786	2,618		
Phosphate:				
Monoammonium Phosphate	851,597	95,104	439,535	
Diammonium Phosphate	256,130	46,103	117,819	
Single Superphosphate	4,868		973	
Triple Superphosphate	47,858		22,004	
Other Phosphate	35			
10-34-0	1,843	184	627	
Potash:				
Muriate of Potash	572,777			347,595
Potassium Sulphate	7,440			3,724
Potassium Magnesium Sulphate	38,742			8,492
Potassium Nitrate	84			34
Other Fertilizer Materials	199,965 ~~185,166~~	27		
TOTAL - ALL CANADA	4,104,942 ~~4,090,148~~	1,196,292	613,577	359,844

Source: This table is a summation of Tables 1.4 and 1.9

2. HISTORICAL CONSUMPTION DATA BY NUTRIENT EQUIVALENT

Up to the 1976/77 fertilizer year, data on provincial fertilizer consumption was provided by a Statistics Canada survey of fertilizer retailers and published in "Fertilizer Trade" (Stat. Can. Catalogue No. 46-207). It is not possible to use these statistics to isolate the amount of the different fertilizer feedstocks used in each province, as much of the fertilizer is expressed only in terms of the formulations sold. The Statistics Canada results are useful, however, for estimates of the total nutrient consumption in each province.

After the 1976/77 fertilizer year, the industry associations have been the most reliable sources of information on fertilizer consumption[1]. Generally, their statistics have been expressed in terms of the different materials used and also provide a summary of total nutrient consumption for the province or region.

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[1] Statistics Canada did conduct a retail survey for the 1983/84 fertilizer year and published the results in "Usage of Fertilizer Materials" (Stat. Can. Catalogue No. 46-504).

TABLE 2.1 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, NEWFOUNDLAND YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P2O5)	Potash (K2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	N.A.	N.A.	N.A.	N.A.	N.A.
1989	N.A.	N.A.	N.A.	N.A.	N.A.
1988	N.A.	N.A.	N.A.	N.A.	N.A.
1987	N.A.	N.A.	N.A.	N.A.	N.A.
1986	3,611	415	474	457	1,346
1985	3,475	389	419	452	1,260
1984	3,517	395	425	480	1,300
1983	4,053	476	515	510	1,501
1982	3,541	352	443	514	1,309
1981	3,717	353	470	481	1,304
1980	4,418	414	570	571	1,555
1979	4,538	439	548	592	1,579
1978	5,958	614	774	758	2,146
1977	5,608	611	747	829	2,187
1976	4,437	484	580	629	1,693
1975	6,560	665	734	833	2,232
1974	4,941	465	612	606	1,683
1973	4,623	463	562	563	1,588
1972	4,936	545	583	574	1,702
1971	4,890	510	604	580	1,694
1970	4,161	358	514	511	1,383
1969	4,544	359	550	570	1,479
1968	4,680	399	558	499	1,456
1967	5,284	430	594	538	1,562
1966	4,899	327	571	503	1,401

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1980–1990) Atlantic Fertilizer Institute

TABLE 2.2 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, PRINCE EDWARD ISLAND YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	N.A.	N.A.	N.A.	N.A.	N.A.
1989	N.A.	N.A.	N.A.	N.A.	N.A.
1988	N.A.	N.A.	N.A.	N.A.	N.A.
1987	N.A.	N.A.	N.A.	N.A.	N.A.
1986	59,285	8,617	9,285	9,561	27,463
1985	60,354	8,133	10,021	10,170	28,324
1984	58,417	7,744	9,857	9,929	27,530
1983	58,021	7,528	9,725	9,901	27,154
1982	58,304	7,465	9,881	9,854	27,200
1981	56,378	7,134	9,608	9,674	26,416
1980	51,714	6,620	8,714	8,689	24,023
1979	59,035	7,094	10,231	10,025	27,350
1978	52,987	6,596	8,951	8,903	24,450
1977	45,827	5,998	8,692	8,560	23,250
1976	47,686	6,037	8,933	9,053	24,023
1975	44,602	5,018	7,885	7,682	20,585
1974	50,840	5,729	8,818	8,757	23,304
1973	48,606	4,782	8,687	8,222	21,691
1972	45,412	4,481	8,114	8,519	21,114
1971	48,403	4,600	8,903	8,366	21,869
1970	52,897	5,058	9,566	9,293	23,917
1969	52,202	5,013	9,726	8,917	23,656
1968	50,434	4,536	8,726	8,502	21,764
1967	50,413	4,412	8,425	8,282	21,119
1966	61,329	4,438	8,668	8,488	21,594

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1980–1990) Atlantic Fertilizer Institute

TABLE 2.3 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, NOVA SCOTIA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	N.A.	N.A.	N.A.	N.A.	N.A.
1989	N.A.	N.A.	N.A.	N.A.	N.A.
1988	N.A.	N.A.	N.A.	N.A.	N.A.
1987	N.A.	N.A.	N.A.	N.A.	N.A.
1986	34,375	5,706	4,396	4,978	15,080
1985	32,326	5,026	4,258	4,923	14,207
1984	34,206	5,466	4,471	5,346	15,283
1983	36,829	6,218	4,569	5,429	16,216
1982	34,073	5,209	4,565	5,354	15,128
1981	33,543	5,285	4,245	5,152	14,682
1980	31,828	4,738	4,237	4,990	13,965
1979	35,110	5,032	5,024	5,593	15,649
1978	34,983	4,952	5,008	5,467	15,427
1977	30,118	4,261	5,096	5,194	14,551
1976	29,575	4,157	5,012	5,020	14,189
1975	31,638	4,097	4,565	4,782	13,444
1974	31,637	4,240	4,550	4,720	13,510
1973	31,600	3,892	4,765	4,852	13,509
1972	30,512	3,925	4,669	4,640	13,234
1971	30,832	3,670	4,732	4,676	13,078
1970	34,601	3,902	5,273	5,287	14,462
1969	32,103	3,318	4,759	4,729	12,806
1968	30,701	2,800	4,196	4,168	11,164
1967	33,743	2,880	4,463	4,597	11,940
1966	37,039	2,984	4,551	4,554	12,089

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1980–1990) Atlantic Fertilizer Institute

TABLE 2.4 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, NEW BRUNSWICK YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	N.A.	N.A.	N.A.	N.A.	N.A.
1989	N.A.	N.A.	N.A.	N.A.	N.A.
1988	N.A.	N.A.	N.A.	N.A.	N.A.
1987	N.A.	N.A.	N.A.	N.A.	N.A.
1986	47,928	6,419	6,063	6,857	19,339
1985	52,016	6,761	6,818	7,356	20,935
1984	52,376	6,534	6,773	7,551	20,858
1983	48,338	5,367	6,351	6,803	18,521
1982	50,195	5,929	6,833	7,118	19,880
1981	51,896	6,202	7,009	6,985	20,196
1980	51,259	5,914	6,996	7,093	20,003
1979	56,128	6,223	7,706	7,722	21,651
1978	57,141	6,129	7,649	7,704	21,482
1977	47,237	5,452	7,085	6,880	19,417
1976	51,420	5,856	7,655	7,602	21,113
1975	55,068	5,633	7,122	6,995	19,750
1974	62,197	6,294	8,178	7,861	22,333
1973	56,757	5,545	7,866	7,325	20,736
1972	58,417	5,853	8,144	7,381	21,378
1971	62,211	5,947	8,548	7,756	22,251
1970	69,165	6,367	9,842	8,805	25,014
1969	70,043	6,269	9,576	8,433	24,278
1968	69,164	4,168	9,518	8,040	21,726
1967	75,095	5,895	10,472	8,090	24,457
1966	79,838	5,811	10,585	7,862	24,258

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1980–1990) Atlantic Fertilizer Institute

TABLE 2.5 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, ATLANTIC PROVINCES YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	145,408	22,356	21,303	23,637	67,296
1989	143,471	22,203	20,275	22,270	64,748
1988	147,841	22,546	20,832	23,723	67,101
1987	154,635	23,910	21,540	24,395	69,845
1986	145,199	21,157	20,218	21,853	63,228
1985	148,171	20,309	21,516	22,901	64,726
1984	148,500	20,100	21,500	23,300	64,900
1983	147,200	19,500	21,200	22,600	63,300
1982	146,100	19,000	21,700	22,800	63,500
1981	145,500	19,000	21,300	20,300	60,600
1980	139,200	17,700	20,500	21,300	59,500
1979	154,800	18,800	23,500	23,900	66,200
1978	151,100	18,300	22,400	22,800	63,500
1977	142,000	16,300	21,600	21,500	59,400
1976	146,768	16,534	22,180	22,304	61,018
1975	137,992	15,413	20,306	20,292	56,011
1974	149,619	16,728	22,158	21,944	60,830
1973	141,589	14,682	21,880	20,962	57,524
1972	139,280	14,804	21,510	21,114	57,428
1971	146,338	14,727	22,787	21,378	58,892
1970	160,826	15,685	25,195	23,896	64,776
1969	158,894	14,959	24,611	22,649	62,219
1968	155,038	11,903	22,998	21,209	56,110
1967	164,502	13,617	23,954	21,507	59,078
1966	164,077	13,524	24,375	21,407	59,306

Source: Summation of figures from Tables 2.1 to 2.4 inclusive.
(1966–1977) Originally derived from Statistics Canada "Fertilizer Trade" (Statistics Canada Catalogue No. 46–207)
(1980–1990) Atlantic Fertilizer Institute

FIGURE 1: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT ATLANTIC PROVINCES

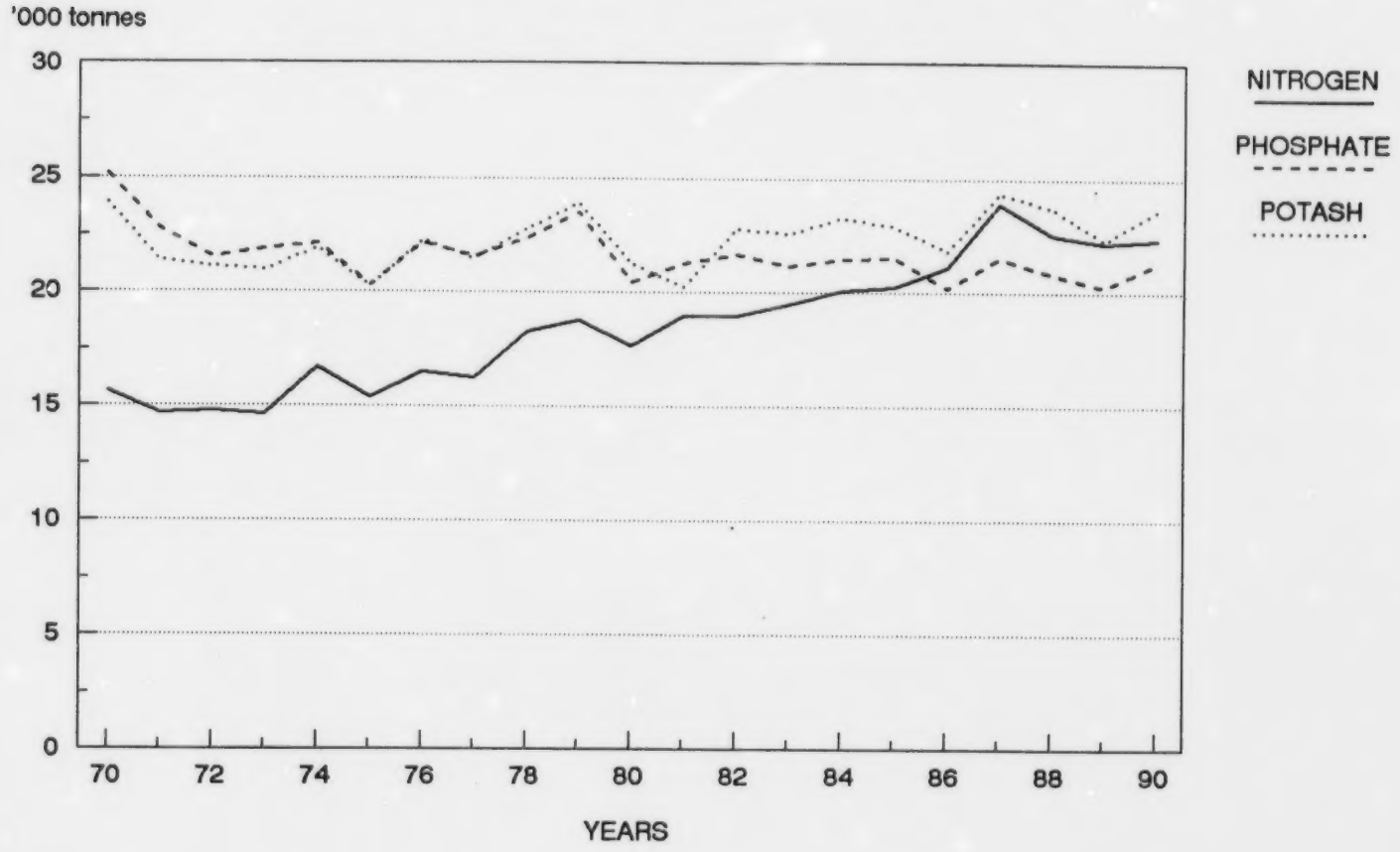


TABLE 2.6 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, QUEBEC YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	507,599 ~~492,800~~	95,245	73,381	89,593	258,219
1989	517,762	93,446	75,181	93,357	261,984
1988	527,685	94,500	76,434	95,809	266,743
1987	521,224	90,692	76,404	95,457	262,553
1986	519,519	89,443	77,152	94,542	261,137
1985	498,785	83,315	73,801	92,683	249,799
1984	473,100	74,400	75,700	83,900	234,000
1983	433,400	62,400	67,900	82,500	212,800
1982	433,400	64,400	68,600	73,700	206,700
1981	420,000	61,400	61,000	69,000	191,400
1980	406,800	54,900	62,700	70,600	188,200
1979	421,700	49,800	62,900	80,700	193,400
1978	386,200	40,600	65,700	63,900	170,200
1977	361,600	43,400	60,800	65,830	170,030
1976	349,390	40,399	60,286	69,577	170,262
1975	329,895	33,519	44,928	50,889	129,336
1974	340,575	34,120	48,272	52,576	134,968
1973	311,604	27,793	44,671	47,822	120,286
1972	311,013	27,404	44,460	47,806	119,670
1971	302,464	25,687	39,782	47,599	113,068
1970	278,572	22,050	39,143	41,409	102,602
1969	271,977	19,725	37,981	39,812	97,518
1968	252,122	17,873	35,251	36,378	89,502
1967	251,408	15,963	36,402	33,614	85,979
1966	223,034	12,828	32,465	29,439	74,732

Source: (1966–1977) Statistics Canada "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207).
(1978–1990) Quebec Fertilizer Manufacturers' Association

FIGURE 2: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT QUEBEC

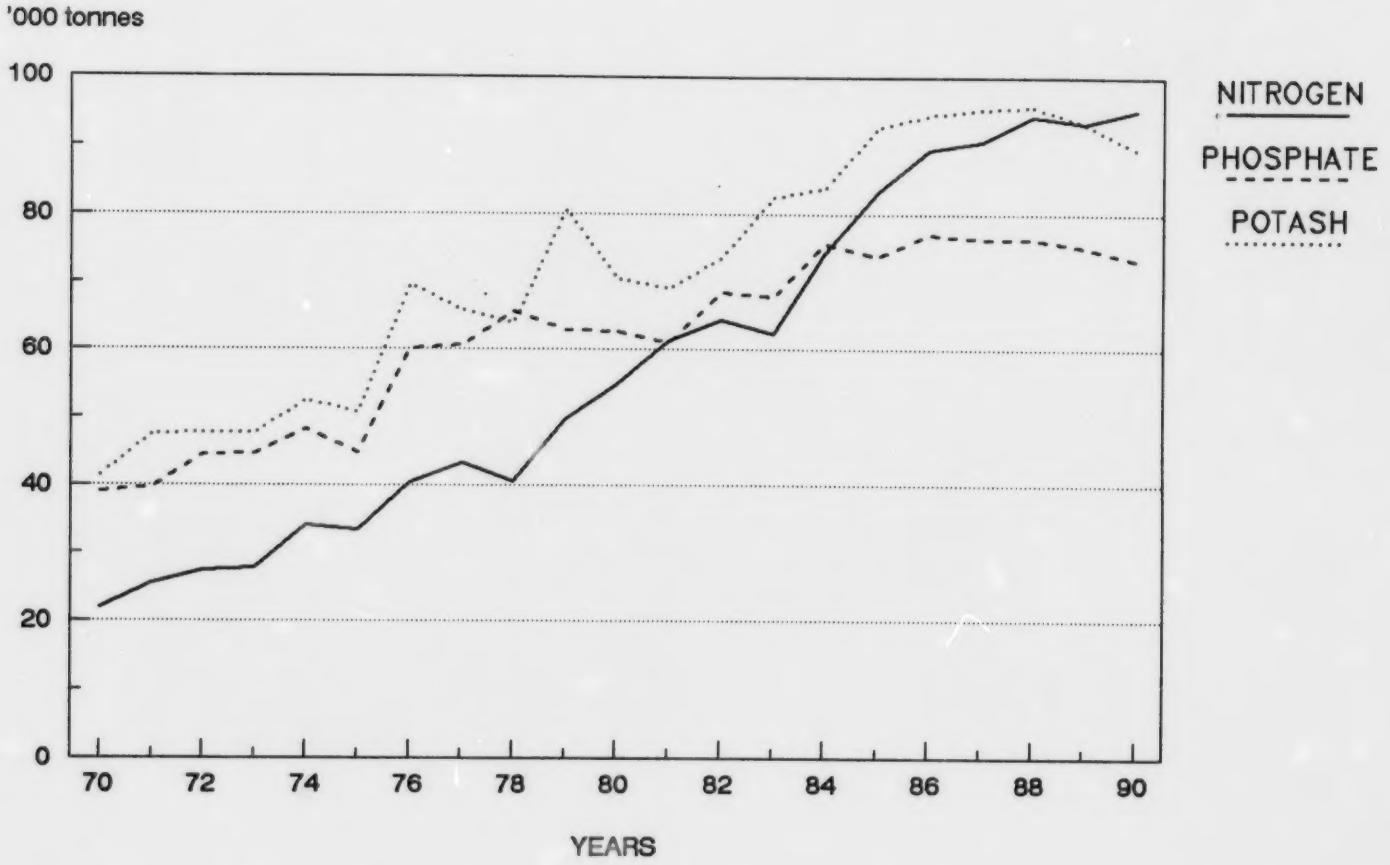


TABLE 2.7 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, ONTARIO YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	889,023	190,013	97,954	166,008	453,975
1989	909,487	191,670	110,912	165,246	467,82(
1988	1,029,545	210,215	117,563	204,496	532,274
1987	1,012,534	216,466	120,677	183,269	520,412
1986	1,036,200	213,916	135,889	186,698	536,503
1985	1,162,175	237,409	152,021	216,156	605,586
1984	1,146,400	209,300	147,300	209,000	565,600
1983	1,031,900	199,000	151,400	173,000	523,400
1982	1,070,900	200,400	155,400	183,200	539,000
1981	1,137,900	205,600	153,100	210,000	568,700
1980	1,125,400	169,000	157,000	191,000	517,000
1979	1,185,000	174,700	169,100	183,000	526,800
1978	1,082,400	166,900	148,900	154,200	470,000
1977	952,200	157,500	144,400	131,200	433,100
1976	862,000	161,364	145,039	132,269	438,672
1975	894,392	152,952	126,036	120,157	399,145
1974	913,693	165,860	133,970	118,495	418,325
1973	849,957	127,895	128,638	114,763	371,296
1972	821,016	128,919	121,307	107,838	358,064
1971	811,702	130,433	117,278	106,750	354,461
1970	781,692	122,402	113,309	102,838	338,549
1969	711,233	89,774	107,596	100,417	297,787
1968	758,048	98,440	109,772	101,390	309,602
1967	746,799	83,075	108,867	100,682	292,624
1966	662,658	68,673	96,826	86,147	251,646

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1978–1990) The Fertilizer Institute of Ontario

FIGURE 3: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT ONTARIO

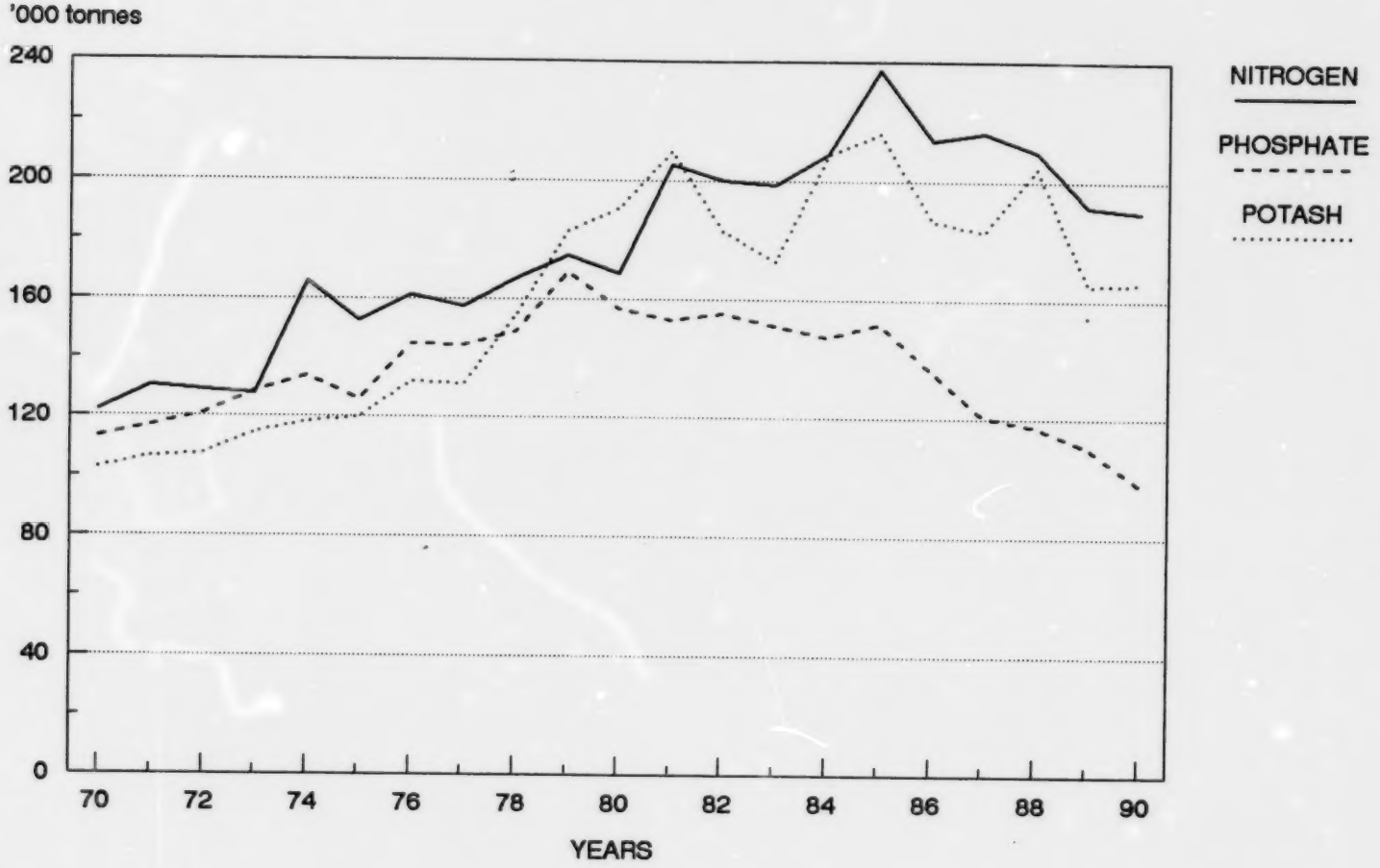


TABLE 2.8 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, EASTERN CANADA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P2O5)	Potash (K2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	1,542,030 ~~1,527,231~~	307,614	192,638	279,239	779,491
1989	1,570,720	307,319	206,368	280,873	794,560
1988	1,705,071	327,261	214,829	324,028	866,118
1987	1,688,383	331,068	218,621	303,101	852,790
1986	1,700,918	324,516	233,259	303,093	860,868
1985	1,786,962	339,153	245,346	329,620	914,119
1984	1,768,000	303,800	244,500	316,200	864,500
1983	1,612,500	280,900	240,500	278,100	799,500
1982	1,650,400	283,800	245,700	279,700	809,200
1981	1,703,400	264,400	235,400	299,600	799,400
1980	1,671,400	241,600	240,200	282,900	764,700
1979	1,761,500	243,300	255,500	287,600	786,400
1978	1,619,900	225,800	237,000	240,900	703,700
1977	1,491,379	217,193	226,800	218,538	662,531
1976	1,482,100	218,297	227,505	224,150	669,952
1975	1,362,040	201,884	191,270	191,338	584,492
1974	1,403,634	216,708	204,400	193,015	614,123
1973	1,302,915	170,370	195,189	183,547	549,106
1972	1,271,080	171,127	187,277	176,758	535,162
1971	1,260,278	170,847	179,849	175,727	526,423
1970	1,220,875	160,137	177,647	168,143	505,927
1969	1,141,905	124,458	170,188	162,878	457,524
1968	1,165,003	128,216	168,021	158,977	455,214
1967	1,162,500	112,655	169,223	155,803	437,681
1966	1,140,387	95,025	153,666	136,993	385,684

Source: Summation of figures from Tables 2.5 to 2.7 inclusive.
(1966–1977) Originally derived from Statistics Canada "Fertilizer Trade" (Catalogue No. 46–207)
(1978–1990) Regional fertilizer associations

FIGURE 4: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT EASTERN CANADA

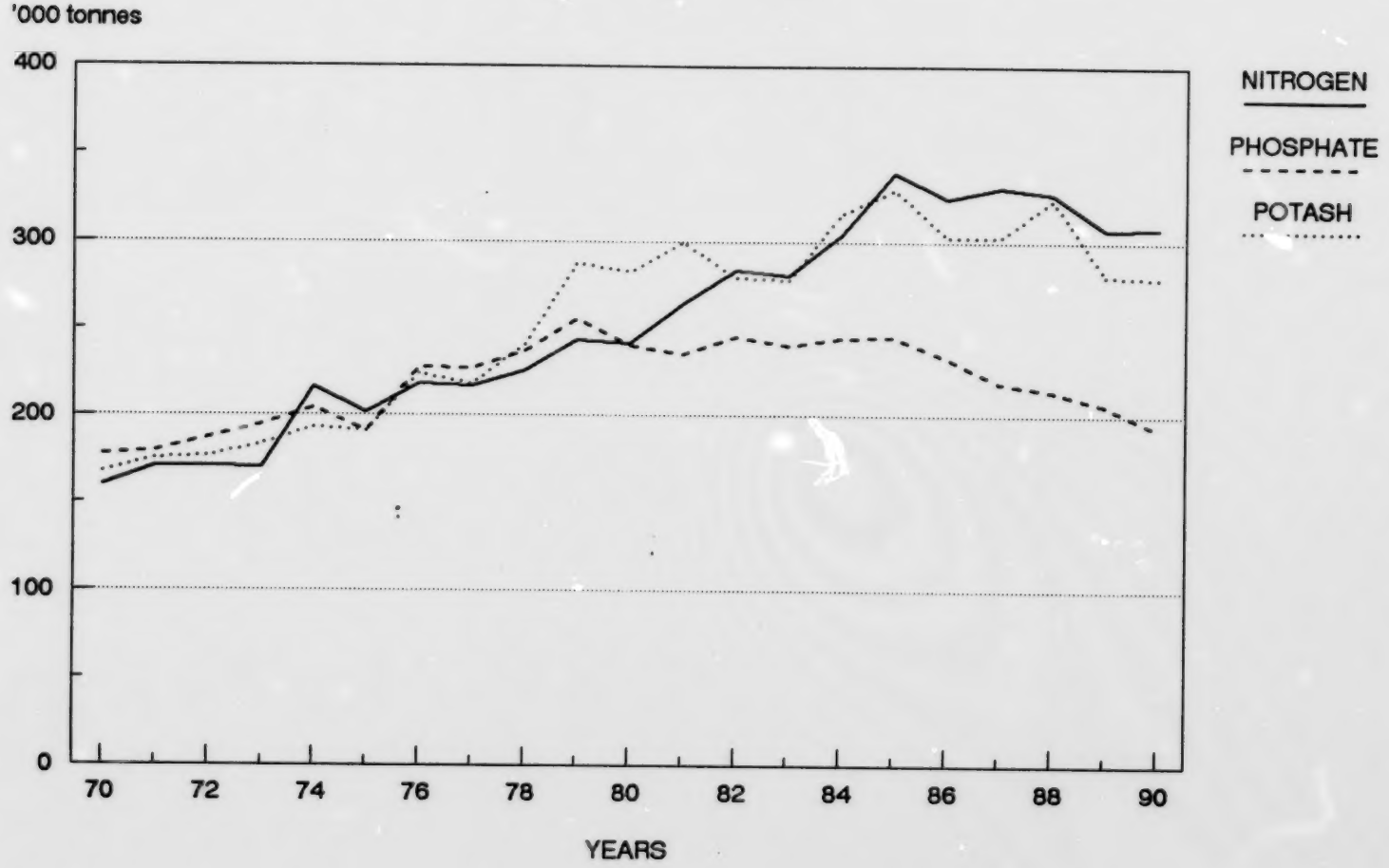


TABLE 2.9 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, MANITOBA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P2O5)	Potash (K2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	662,754	232,597	104,192	24,473	361,262
1989	637,191	221,422	99,500	22,575	343,497
1988	705,869	248,010	110,573	24,662	383,245
1987	623,113	222,500	96,980	20,649	340,129
1986	673,475	235,960	105,429	19,396	360,785
1985	669,484	236,089	105,915	20,568	362,572
1984	588,686	205,114	103,319	17,661	326,094
1983	523,556	171,453	84,963	16,383	272,799
1982	521,187	167,107	85,520	21,526	274,153
1981	516,996	154,448	91,922	20,517	266,887
1980	548,692	172,374	94,447	19,459	286,280
1979	543,874	176,021	94,460	12,757	283,238
1978	455,810	136,857	82,454	8,901	228,212
1977	367,106	106,962	68,660	1,952	177,574
1976	369,358	118,962	71,887	2,918	193,767
1975	344,649	91,365	73,815	2,331	167,511
1974	326,241	87,586	70,672	1,316	159,574
1973	277,588	71,430	57,201	1,710	130,341
1972	196,502	47,390	39,643	1,363	88,396
1971	177,210	44,905	41,300	1,323	87,528
1970	120,336	30,256	28,644	1,412	60,312
1969	128,097	30,196	26,821	1,192	58,209
1968	219,776	52,083	48,642	1,416	102,141
1967	164,324	34,719	41,195	1,129	77,043
1966	139,147	26,762	37,769	686	65,217

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1978–1990) Western Canada Fertilizer Association and the Potash and Phosphate Institute

FIGURE 6: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT MANITOBA

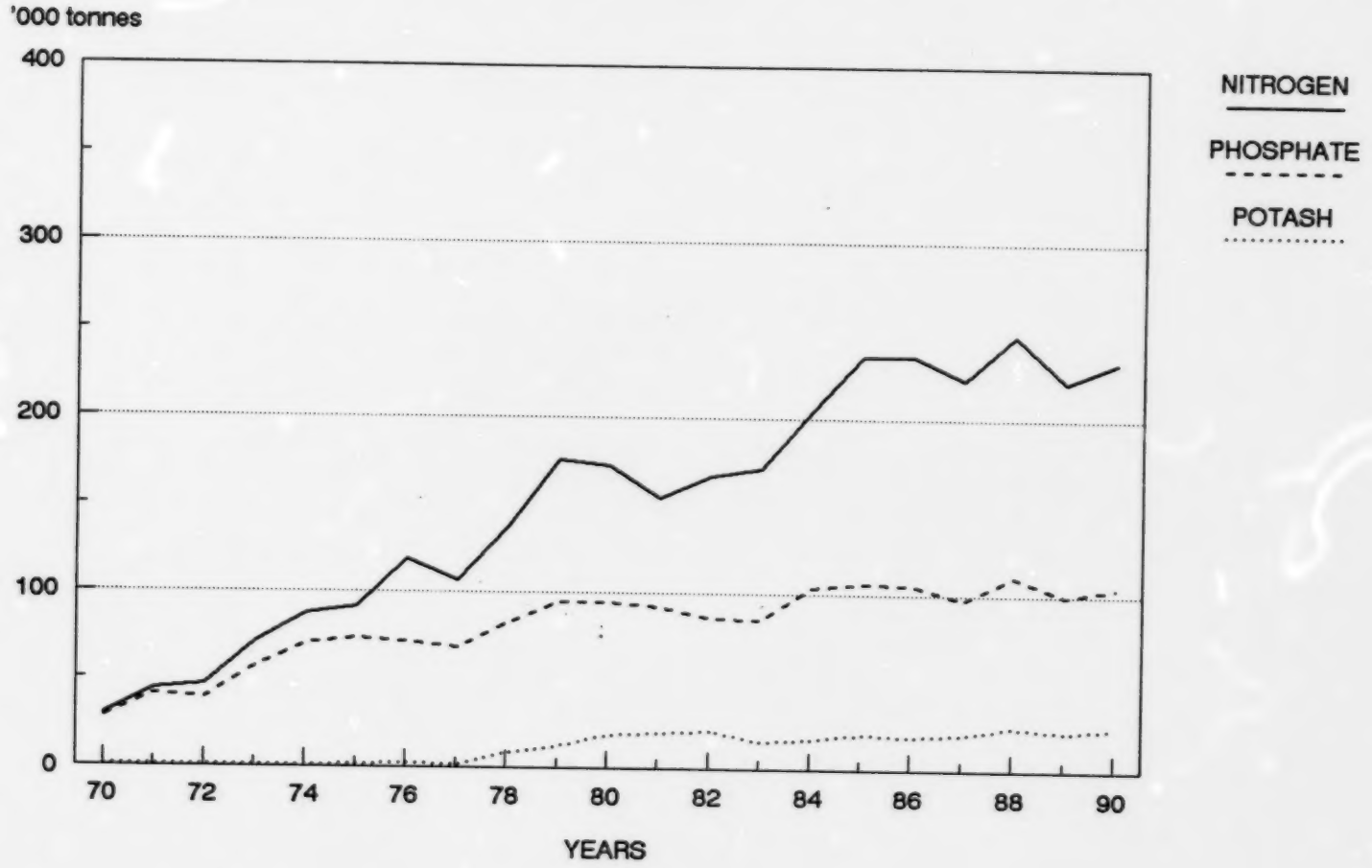


TABLE 2.10 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, SASKATCHEWAN YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	799,637	274,194	149,461	12,374	436,029
1989	745,307	244,723	143,860	11,726	400,309
1988	832,387	266,044	157,939	18,967	442,950
1987	812,431	274,815	157,335	12,415	444,565
1986	926,651	317,800	185,537	12,724	516,061
1985	885,055	296,395	184,961	11,549	492,905
1984	876,162	289,261	186,296	9,276	484,833
1983	742,680	222,499	160,593	7,703	390,795
1982	630,650	191,974	143,185	11,738	346,897
1981	582,301	167,734	140,053	9,922	317,709
1980	513,932	142,700	115,530	7,382	265,612
1979	527,868	138,128	125,409	3,121	266,658
1978	432,490	104,825	117,653	638	223,116
1977	298,239	66,658	88,340	382	155,380
1976	284,092	56,351	89,252	764	146,367
1975	309,088	55,700	106,527	582	162,809
1974	277,060	49,328	94,070	636	144,034
1973	194,140	35,482	65,686	290	101,458
1972	118,403	20,707	40,201	4,575	65,483
1971	93,999	15,750	34,331	200	50,281
1970	57,878	10,052	20,423	128	30,603
1969	118,895	18,733	45,024	155	63,912
1968	243,280	40,491	87,903	628	129,022
1967	241,172	43,680	78,339	393	122,412
1966	194,782	31,153	68,708	252	100,113

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1978–1990) Western Canada Fertilizer Association and the Potash and Phosphate Institute

FIGURE 6: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT SASKATCHEWAN

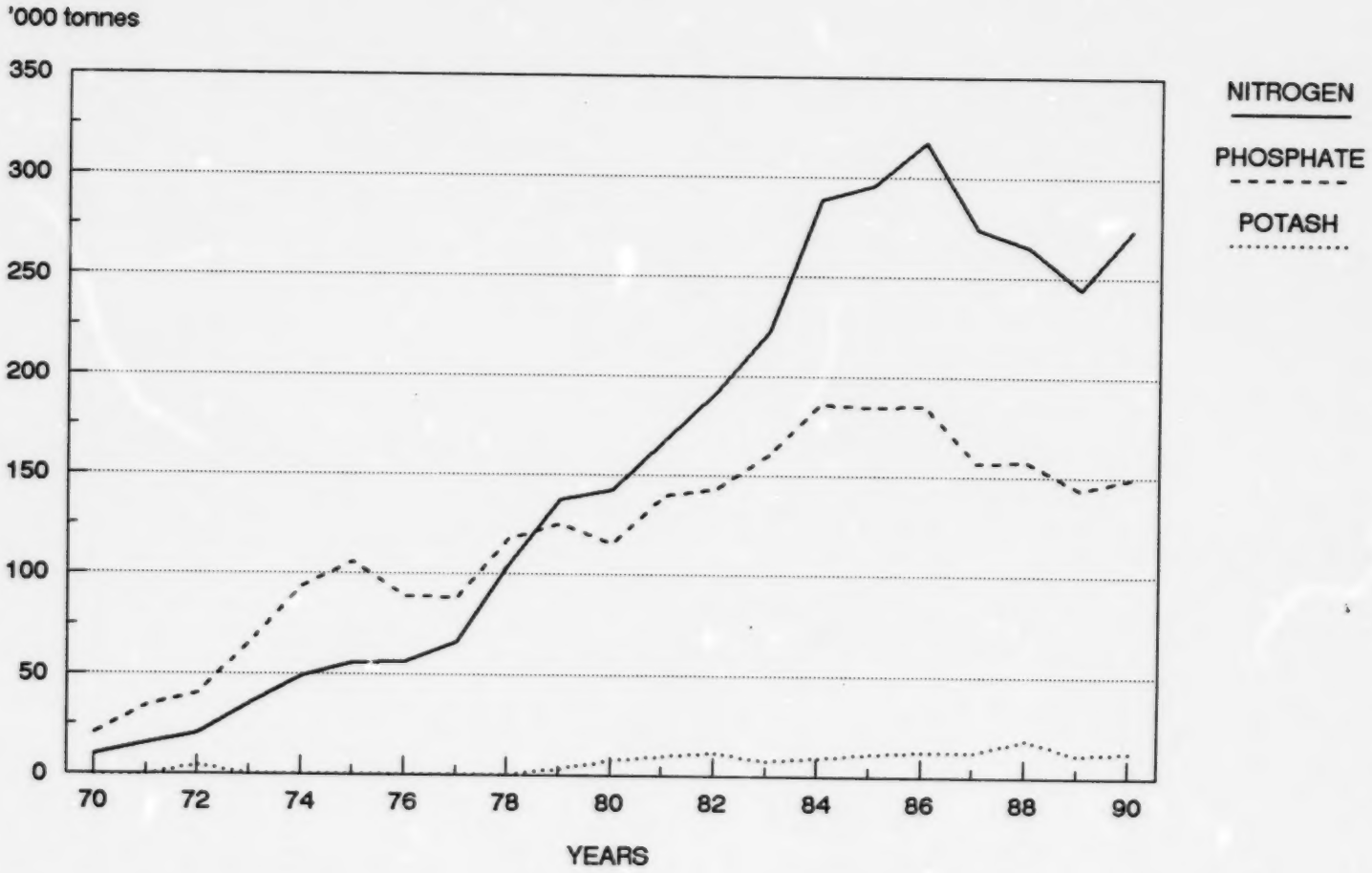


TABLE 2.11 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, ALBERTA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	992,499	352,218	154,816	36,410	543,444
1989	967,354	346,536	148,954	32,530	528,020
1988	894,966	315,796	137,369	29,199	482,364
1987	843,466	289,186	140,197	26,348	455,731
1986	884,351	308,908	154,600	28,282	491,790
1985	995,157	353,469	174,067	27,420	554,956
1984	924,488	335,906	166,831	27,467	530,204
1983	869,116	303,815	162,294	26,098	492,207
1982	845,803	299,360	148,418	22,604	470,382
1981	859,233	302,154	154,623	23,434	480,211
1980	729,059	249,603	134,181	24,798	408,582
1979	748,891	247,611	119,724	15,374	382,709
1978	696,476	222,215	129,701	13,775	365,691
1977	585,937	194,691	108,972	2,282	305,945
1976	576,911	180,508	104,972	7,268	292,748
1975	569,341	166,399	118,884	3,262	288,545
1974	523,999	145,043	113,404	2,114	260,561
1973	422,366	121,738	87,721	1,229	210,688
1972	327,478	85,909	64,772	2,529	153,210
1971	317,518	80,999	61,983	1,581	144,563
1970	240,457	58,651	46,382	1,292	106,325
1969	281,912	70,582	65,504	863	136,949
1968	401,778	91,426	87,202	1,372	180,000
1967	361,913	78,342	78,056	746	157,144
1966	286,775	58,168	65,713	271	124,152

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1978–1990) Western Canada Fertilizer Association and the Potash and Phosphate Institute

FIGURE 7: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT ALBERTA

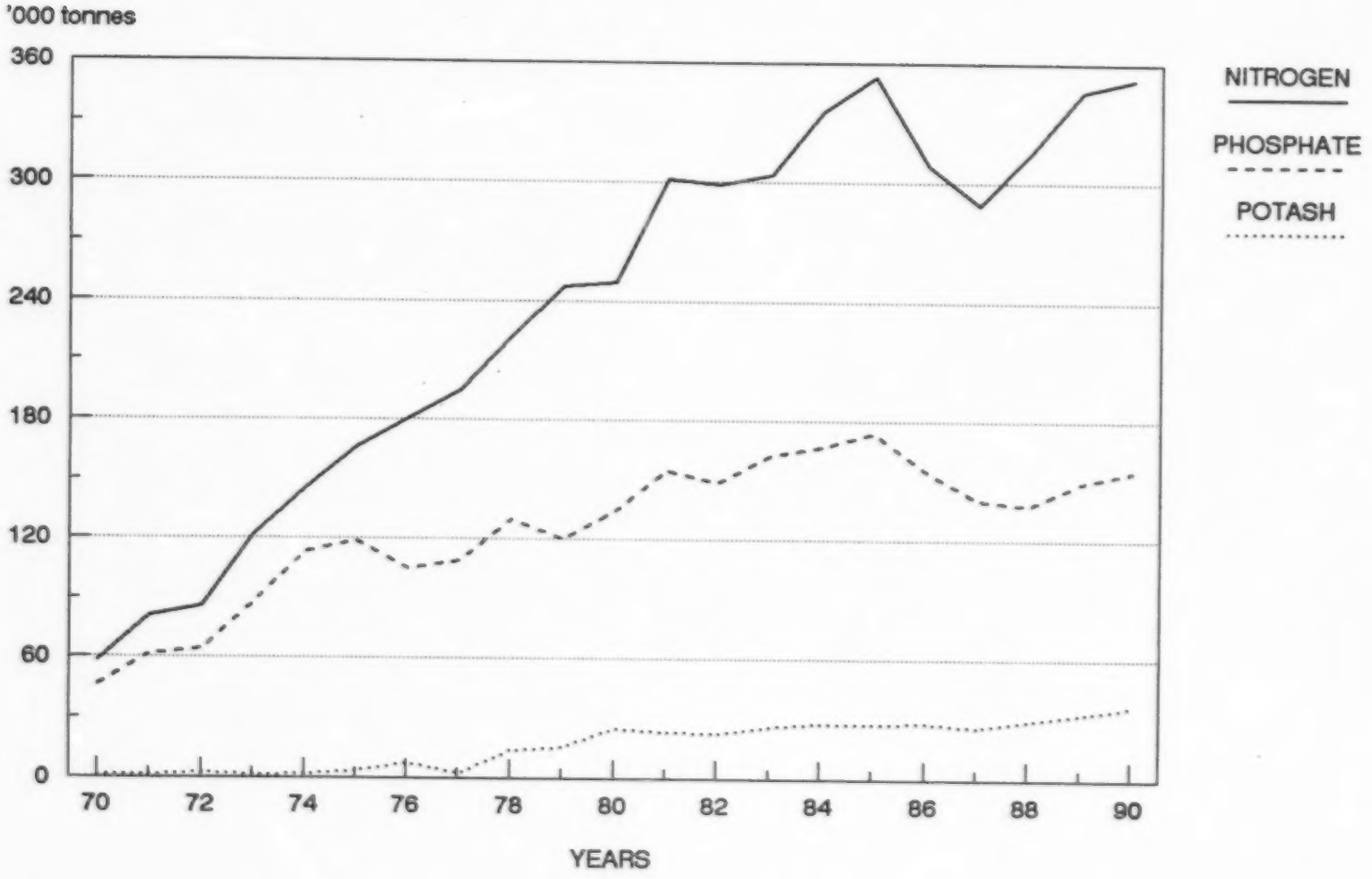


TABLE 2.12 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, BRITISH COLUMBIA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P_2O_5)	Potash (K_2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	108,022	29,669	12,470	7,347	49,486
1989	127,653	40,166	15,687	8,438	64,291
1988	103,005	30,542	13,765	7,184	51,491
1987	95,026	26,972	13,126	7,363	47,461
1986	114,596	33,537	16,285	6,706	56,528
1985	102,996	27,425	13,998	10,560	51,983
1984	86,001	23,446	11,761	6,269	41,476
1983	94,558	23,472	13,335	6,055	42,862
1982	93,670	23,657	13,442	9,417	46,516
1981	96,409	27,485	13,149	7,950	48,584
1980	109,280	N.A.	N.A.	9,823	N.A.
1979	89,349	N.A.	N.A.	14,375	N.A.
1978	62,572	N.A.	N.A.	11,543	N.A.
1977	86,099	14,069	11,914	11,095	37,078
1976	67,925	11,924	9,004	6,958	27,886
1975	91,371	15,895	11,232	9,284	36,411
1974	77,437	13,930	11,646	4,941	30,517
1973	63,537	10,694	9,466	3,917	24,077
1972	58,430	9,259	8,892	3,825	21,976
1971	65,817	10,560	8,900	5,488	24,948
1970	54,426	8,590	7,511	3,624	19,725
1969	50,487	7,849	7,700	3,205	18,754
1968	49,846	7,151	7,424	3,679	18,254
1967	48,820	7,266	7,091	3,495	17,852
1966	50,352	7,069	7,571	3,597	18,237

Source: (1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1978–1990) Western Canada Fertilizer Association and the Potash and Phosphate Institute

FIGURE 8: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT BRITISH COLUMBIA

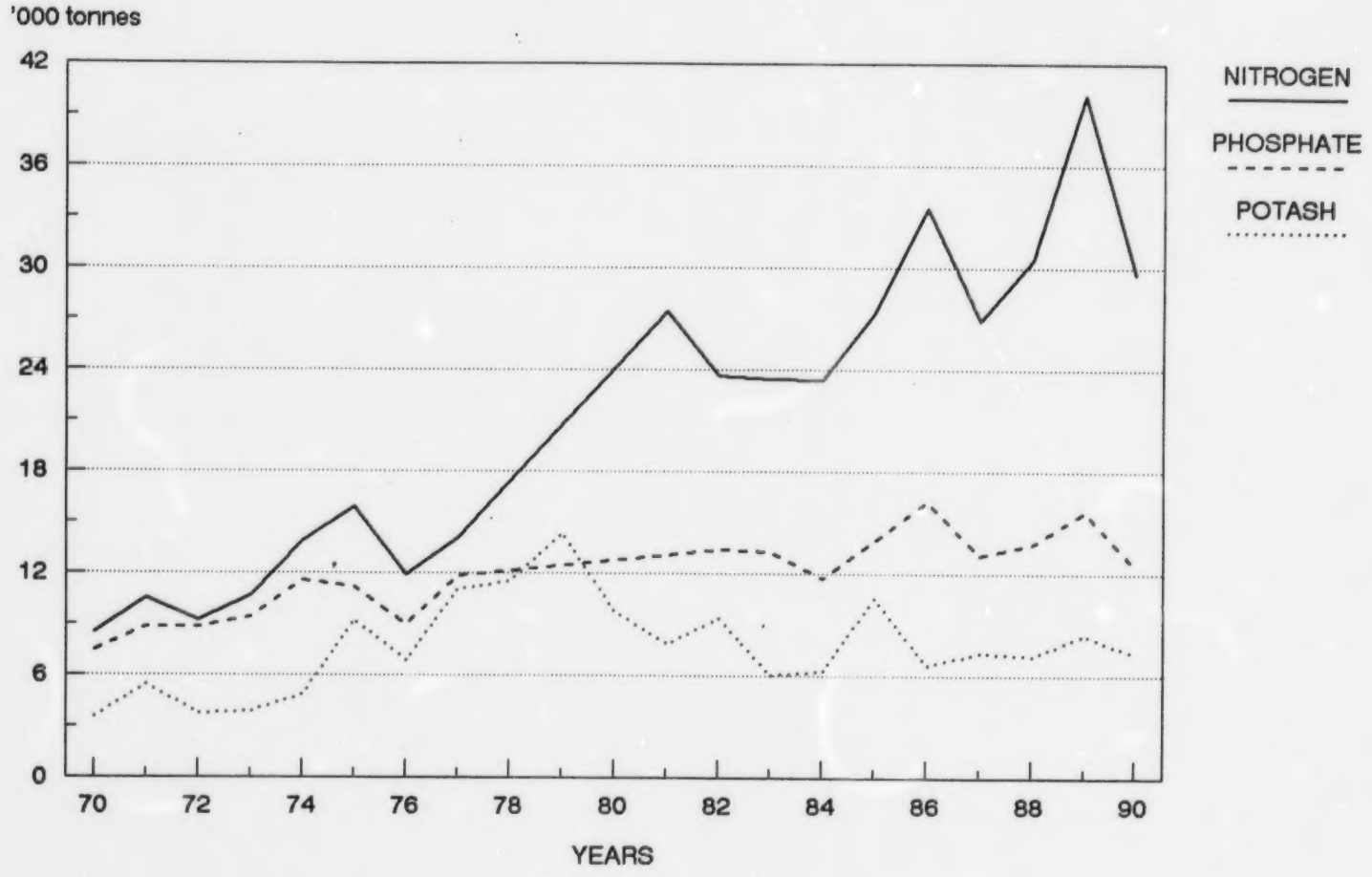


TABLE 2.13 FERTILIZER MATERIALS USED AND NUTRIENT CONTENT, WESTERN CANADA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P2O5)	Potash (K2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	2,562,912	888,678	420,939	80,605	1,390,222
1989	2,477,505	852,847	408,001	75,269	1,336,117
1988	2,536,227	860,392	419,646	80,012	1,360,050
1987	2,380,273	813,473	407,638	66,789	1,287,900
1986	2,599,073	896,205	461,851	67,108	1,425,164
1985	2,647,675	913,378	478,941	70,097	1,462,416
1984	2,475,340	853,700	468,200	60,459	1,382,360
1983	2,229,910	721,000	411,200	59,601	1,191,800
1982	2,091,310	682,100	390,600	63,818	1,136,520
1981	2,054,940	651,800	399,700	63,696	1,115,200
1980	1,900,960	589,500	387,500	66,014	1,043,014
1979	1,909,980	591,100	374,500	42,795	1,008,395
1978	1,647,350	529,500	356,600	31,716	917,816
1977	1,337,380	381,900	275,900	15,711	673,511
1976	1,298,290	367,745	275,115	17,908	660,768
1975	1,314,450	329,359	310,458	15,459	655,280
1974	1,204,737	295,887	289,792	9,007	594,686
1973	957,631	239,344	220,074	7,146	466,564
1972	700,813	163,265	153,508	12,292	329,065
1971	654,544	152,214	146,514	8,593	307,321
1970	473,097	107,549	102,960	6,456	216,965
1969	579,391	127,360	145,049	5,415	277,824
1968	914,680	191,151	231,171	7,095	429,420
1967	816,229	164,007	204,681	5,763	374,451
1966	671,056	123,152	179,761	4,806	307,719

Source: Summation of figures from Tables 2.9 to 2.12 inclusive.
(1966–1977) Statistics Canada, "Fertilizer Trade", (Statistics Canada, Catalogue No. 46–207)
(1978–1990) Western Canada Fertilizer Association and the Potash and Phosphate Institute

FIGURE 9: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT WESTERN CANADA

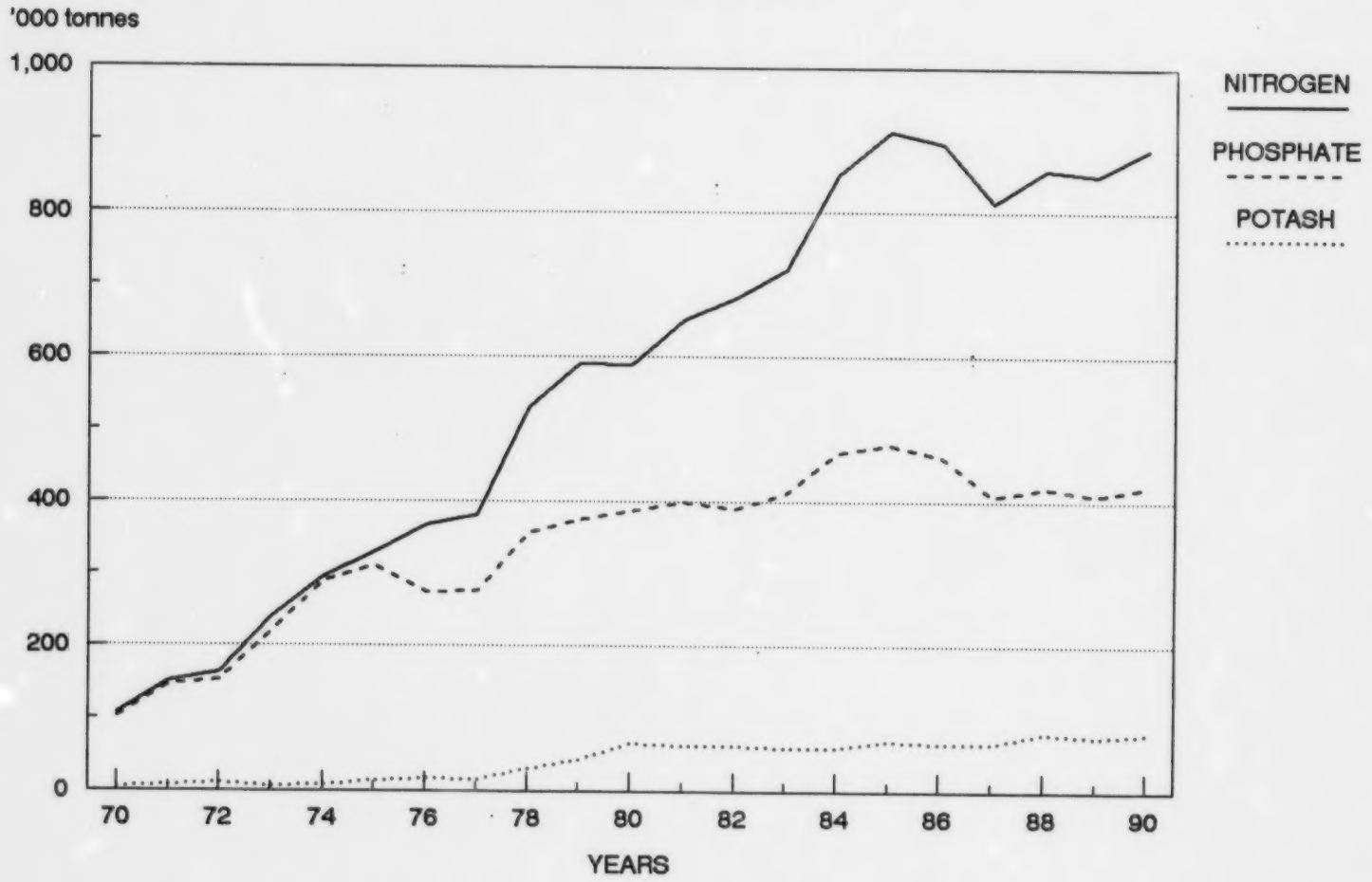
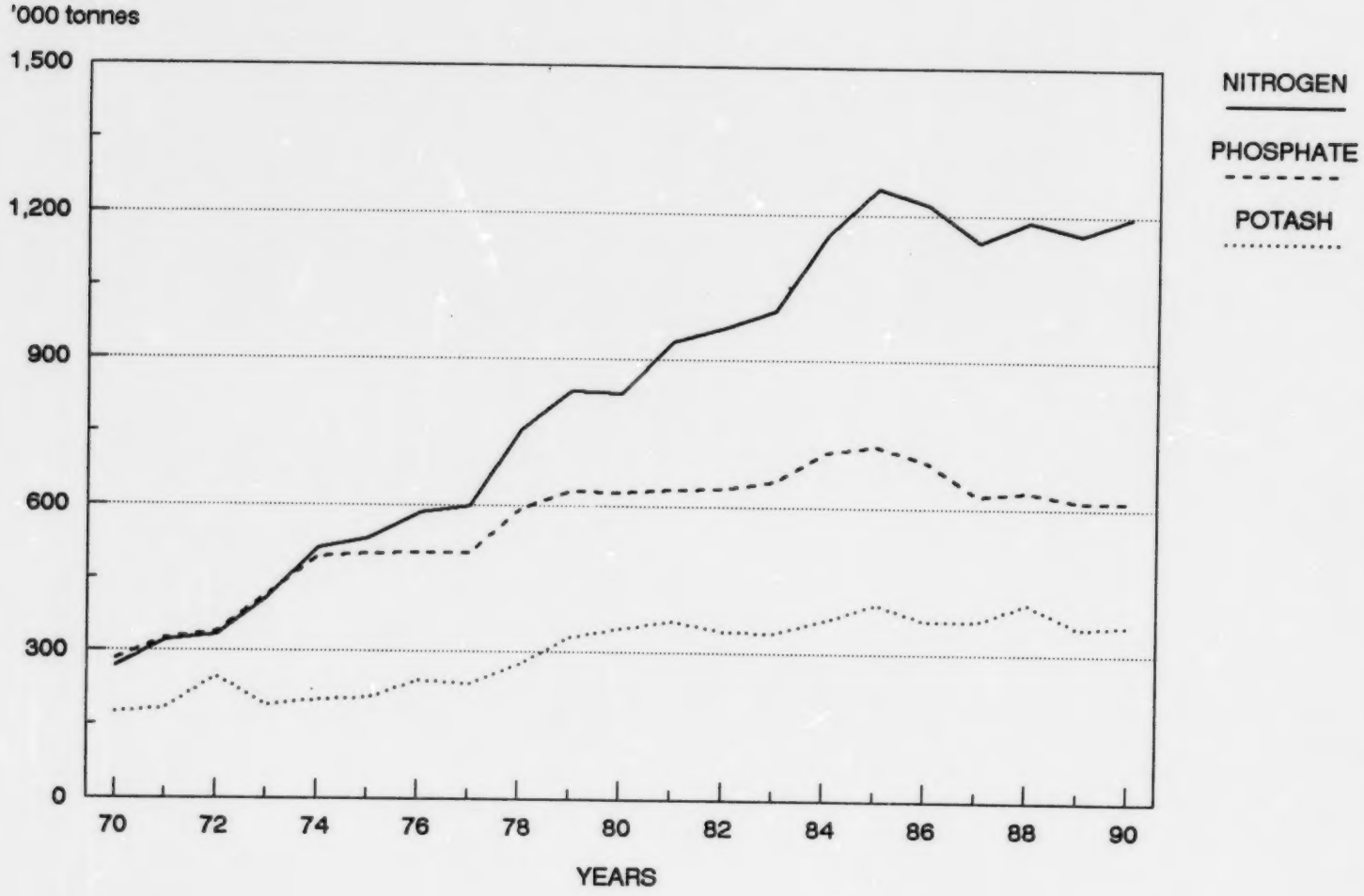


TABLE 2.14 TOTAL FERTILIZER MATERIAL USED AND NUTRIENT CONTENT, CANADA YEAR ENDED JUNE 30

Year	Fertilizer Material Used	Nutrient Content			
		Nitrogen (N)	Phosphate (P2O5)	Potash (K2O)	All Nutrients (N + P + K)
		(All figures in metric tonnes)			
1990	4,104,942 ~~4,086,145~~	1,196,292	613,577	359,844	2,169,713
1989	4,048,225	1,160,166	614,369	356,142	2,130,677
1988	4,241,298	1,187,653	634,475	404,040	2,226,168
1987	4,068,656	1,144,537	626,259	369,890	2,140,686
1986	4,299,991	1,220,721	695,110	370,209	2,286,040
1985	4,434,637	1,254,411	726,279	401,837	2,382,527
1984	4,243,300	1,157,500	712,700	370,300	2,240,500
1983	3,842,400	1,001,900	651,700	342,100	1,996,200
1982	3,741,600	965,900	636,300	343,600	1,945,800
1981	3,758,300	937,800	635,100	365,600	1,938,500
1980	3,571,600	831,100	627,700	348,900	1,807,700
1979	3,671,100	834,400	630,400	330,400	1,794,800
1978	3,266,700	755,300	593,600	275,900	1,624,800
1977	2,828,756	599,120	503,180	234,231	1,336,531
1976	2,780,383	586,092	502,657	242,077	1,330,826
1975	2,676,410	531,286	501,765	206,812	1,239,863
1974	2,608,623	512,643	494,230	202,039	1,208,912
1973	2,260,778	409,748	415,294	190,708	1,015,750
1972	1,972,120	334,420	340,813	248,929	924,162
1971	1,915,045	323,084	326,387	184,333	833,804
1970	1,699,834	269,830	284,013	176,129	729,992
1969	1,721,491	251,839	315,530	168,307	735,676
1968	2,079,921	320,842	399,245	166,105	886,192
1967	1,980,785	276,700	373,954	161,608	812,262
1966	1,739,855	218,210	333,473	141,828	693,511

Source: Summation of figures from Tables 2.8 to 2.13 inclusive.
(1966–1977) Statistics Canada, "Fertilizer Trade" (Statistics Canada, Catalogue No. 46–207)
(1978–1990) Regional fertilizer associations and the Potash and Phosphate Institute

FIGURE 10: FERTILIZER CONSUMPTION MEASURED AS NUTRIENT EQUIVALENT CANADA



3. FERTILIZER SHIPMENT DATA

The fertilizer shipment data is derived from information on the province of destination for fertilizer shipments from the following domestic fertilizer manufacturers:

Canadian Fertilizers Limited
C-I-L Inc.
Cominco Fertilizers
Cyanamid Canada Ltd.
Esso Chemical Canada
Glacier Ammonia Co.
Nitrochem Inc.
Noranda Sales Corp. Ltd.
Ocelot Ammonia Co.
Simplot Chemical Co.
Sherritt Gordon Ltd.
Western Co-operative Fertilizers Ltd.

Data on potash shipments are provided by the Potash and Phosphate Institute. All shipment information is compiled and presented by the Canadian Fertilizer Information System.

Shipments to different provinces are different from actual consumption, as shipments do not account for fertilizer imported from other countries. Furthermore, fertilizer shipped in a particular fertilizer year is not necessarily consumed in that period. Shipments tend to represent the original provincial destination of fertilizer once it leaves the manufacturer and do not account for fertilizer which is shipped to other provinces or exported after reaching that destination.

TABLE 3.1 **SHIPMENTS TO DOMESTIC AND EXPORT MARKETS OF FERTILIZER OF DOMESTIC MANUFACTURE (YEAR ENDED JUNE 30, 1990)**

	Domestic Market								Export Market		Total Shipments (1)
	Atlantic Provinces	Quebec	Ontario	Manitoba	Sask.	Alberta	British Columbia	Canada Total	U.S.A.	Offshore	
	(all figures in metric tonnes)										
Nitrogen:											
Urea	2,689	45,016	153,973	170,069	302,575	312,817	28,764	1,016,103	1,098,992	346,875	2,461,970
Ammonium Sulphate	–	–	1	22,966	55,048	64,978	8,369	151,362	191,435	64,480	407,277
Ammonium Nitrate	23,770	36,115	114,476	69,018	26,889	85,032	10,339	367,639	132,228	–	499,867
Anhydrous Ammonia	–	1,088	37,335	129,370	101,743	179,129	903	449,568	1,182,860	–	1,632,428
Phosphates:											
Monoammonium Phosphate	––	––	38	135,526	253,923	262,362	15,894	667,743	31,107	––	698,850
Diammonium Phosphate	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	133,913
Potash:											
Muriate of Potash	44,189	149,795	287,320	40,120	65,223	59,689	12,045	658,381	5,833,225	4,488,204	10,979,810
Other (3)	––	––	276	33,553	18,500	8,044	5,039	65,412	46,658	37	112,107
Total	70,848	232,014	593,419	600,622	825,901	972,051	81,353	3,376,208	8,516,505	4,899,596	16,926,222

1 These are agricultural shipments. Statistics Canada uses total shipments including industrial.

2 Diammonium phosphate includes domestic, U.S., and offshore shipments to prevent disclosure of individual markets.

3 Includes phosphate and sulphur solutions, mixed fertilizer materials and elemental sulphur and sulphate fertilizers not elsewhere shown.

Source: Canadian Fertilizer Information System,
Canadian Fertilizer Institute

4. FERTILIZER TRADE

Fertilizer trade data are compiled by province of entry or exit by Statistics Canada. These data do not represent the province of origin of exports nor the province in which imports were ultimately utilized. They simply reflect the point at which the fertilizer crossed the international border. As very little traded fertilizer is actually transported between Eastern and Western Canada, exports which are observed to have occurred from one region will have originated there and imports entering that region will be consumed there[2]. Trade Statistics will therefore be relatively accurate on a regional basis (Table 4.1).

It should be noted that there are some discrepancies between these export figures and those in the shipment data of the previous section. Some of this is due to the fact that not all companies report their exports when submitting shipment information to the Canadian Fertilizer Information System (Table 3.1). Other discrepancies in export data have been attributed to differences in the fertilizer year in which certain exports were assumed to have taken place. In addition, some of the Statistics Canada trade statistics include urea and ammonium nitrate which are used industrially, while those recorded for the Canadian Fertilizer Information System only include the volume considered to be fertilizer grade.

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[2] The principal exception to thos is potash exports shipped out through Thunder Bay, Ontario. For the purposes of the following tables, potash which shows the province of export to be Ontario will be assumed to originate in wester Canada.

TABLE 4.1 FERTILIZER TRADE BY REGION AND ALL CANADA YEAR ENDED JUNE 30, 1990

	Exports			Imports		
	East	West	Total	East	West	Total
	(all figures in metric tonnes of fertilizer material)					
Nitrogen:						
Urea	144,540	1,128,704	1,273,244	248,310	4,018	252,328
Ammonium Sulphate	11,900	213,527	225,427	14,372	2,074	16,446
Ammonium Nitrate	98,101	198,566	296,667	–	–	
Anhydrous Ammonia	282,836	845,591	1,128,427	1,890	7,733	9,623
Nitrogen Solutions	47,094	21,687	68,781	1,056	3,073	4,129
Phosphate:						
Monoammonium Phosphate	929	27,482	28,411	80,656	128,156	208,812
Diammonium Phosphate	61,779	1,527	63,306	178,416	1,177	179,593
Triple Superphosphate				18,831	2,042	20,873
Normal Superphosphate				3,108	1,027	4,135
Other Phosphate	1,061	45,420	46,481	11,380	10,252	21,632
Potash:						
Muriate of Potash	1,436,047	9,525,349 (1)	10,961,396	4,103	833	4,936
Potassium Sulphate				20,123	853	20,976
Potassium Magnesium Sulphate				35,957	1,230	37,187
Prepared Mixures	30,684	4,044	34,728	3,687	5,133	8,820
Other Fertilizer and Fertilizer Materials	18,092	10,475	28,567	14,367	11,070	25,437
TOTALS	2,133,063	12,022,372	14,155,435	636,256	178,671	814,927

(1) Includes exports from Ontario, as most of these exports are western potash being shipped through Thunder Bay.

Source: Statistics Canada

5. FARM EXPENDITURES ON FERTILIZER

Farm expenditures on fertilizer are currently estimated employing the National Farm Survey and taxfiler data. Prior to the introduction of National Farm Survey in 1983, the Agricultural Enumerative Survey and the Farm Enumerative Surveys were the chief sources of information. Before these surveys were introduced in the mid-1970's, consumption estimates were based on information from the Agricultural Census with appropriate adjustments for year-to-year variation in consumption.

**TABLE 5.1 TOTAL FARM EXPENDITURES ON FERTILIZER AND LIME (1)
ATLANTIC PROVINCES
YEAR ENDED DECEMBER 31**

Year	Newfoundland	P.E.I.	Nova Scotia	New Brunswick	Atlantic Provinces
		(All figures in 000 of dollars)			
1990 (2)	1,259	16,264	8,382	12,707	38,612
1989	1,279	18,000	8,606	13,465	41,350
1988	1,275	17,334	8,600	13,331	40,540
1987	1,180	17,433	8,489	12,847	39,949
1986	1,010	16,630	7,825	12,110	37,575
1985	971	17,882	8,236	12,398	39,487
1984	992	16,759	8,093	12,072	37,916
1983	945	16,005	7,482	12,299	36,731
1982	996	16,561	7,675	12,571	37,803
1981	1,010	16,096	7,614	11,988	36,708
1980	868	13,731	6,273	10,391	31,263
1979	501	12,606	6,802	10,080	29,989
1978	485	11,383	5,675	8,657	26,200
1977	485	9,449	5,386	8,126	23,446
1976	425	9,522	6,381	8,143	24,471
1975	425	9,429	6,259	8,249	24,362
1974	336	7,144	4,424	6,243	18,147
1973	247	4,679	3,564	4,138	12,628
1972	243	3,446	2,672	3,234	9,595
1971	N.A.	3,732	2,450	3,242	9,424 (3)
1970	N.A.	3,856	2,481	3,260	9,597 (3)
1969	N.A.	3,961	2,338	4,038	10,337 (3)
1968	N.A.	3,911	1,956	3,995	9,862 (3)
1967	N.A.	3,565	2,158	4,051	9,774 (3)
1966	N.A.	4,079	2,932	4,932	11,943 (3)

(1) Includes all costs associated with the purchase of fertilizer and, where applicable fertilizer application

(2) Forecast

(3) Does not include Newfoundland in the total

Source: Statistics Canada

TABLE 5.2 TOTAL FARM EXPENDITURES ON FERTILIZER AND LIME (1)
CENTRAL CANADA
YEAR ENDED DECEMBER 31

Year	Quebec	Ontario	Central Canada (2)	Eastern Canada (3)
		(All figures in 000 of dollars)		
1990 (4)	149,090	274,943	424,033	462,645
1989	160,458	294,554	455,012	496,362
1988	157,270	303,807	461,077	501,617
1987	153,043	281,945	434,988	474,937
1986	147,980	267,958	415,938	453,513
1985	149,554	293,312	442,866	482,353
1984	145,664	287,633	433,297	471,213
1983	140,575	248,315	388,890	425,621
1982	134,141	267,016	401,157	438,960
1981	130,938	264,073	395,011	431,719
1980	117,873	256,481	374,354	405,617
1979	107,735	222,715	330,439	360,439
1978	90,614	191,410	282,024	308,224
1977	66,048	152,322	218,370	241,816
1976	66,212	147,664	213,876	238,347
1975	63,354	160,046	223,400	247,762
1974	45,225	107,715	152,940	171,087
1973	30,574	76,485	107,059	119,687
1972	27,859	64,344	92,203	101,798
1971	25,563	62,929	88,492	97,916 (5)
1970	23,900	57,762	81,662	91,259 (5)
1969	24,316	57,034	81,350	91,687 (5)
1968	23,786	74,383	98,169	108,031 (5)
1967	22,809	64,908	87,717	97,491 (5)
1966	21,931	57,700	79,631	91,574 (5)

(1) Includes all costs associated with the purchase of fertilizer and, where applicable fertilizer application

(2) Quebec and Ontario

(3) Central and Atlantic Canada

(4) Forecast

(5) Does not include Newfoundland in the total

Source: Statistics Canada

TABLE 5.3 TOTAL FARM EXPENDITURES ON FERTILIZER AND LIME (1) WESTERN CANADA AND CANADA TOTAL YEAR ENDED DECEMBER 31

Year	Manitoba	Sask.	Alberta	British Columbia	Western Canada	Total Canada	
			(All figures in 000 of dollars)				
1990 (2)	183951	241967	266479	33708	726,105	1,188,750	
1989	185,248	253,369	271,614	36,034	746,265	1,242,627	
1988	194,405	261,362	252,420	34,058	742,245	1,243,862	
1987	187,191	294,437	248,667	35,313	765,608	1,240,545	
1986	198,446	320,330	286,518	35,407	840,701	1,294,214	
1985	219,153	310,925	319,018	36,529	885,625	1,367,978	
1984	211,073	299,510	336,070	30,627	877,280	1,348,493	
1983	188,069	266,705	315,028	27,790	797,592	1,223,213	
1982	167,540	212,853	288,387	27,473	696,253	1,135,213	
1981	162,959	198,928	280,275	25,050	667,212	1,098,931	
1980	145,361	166,100	202,906	21,939	536,306	941,923	
1979	133,540	142,914	179,205	19,300	474,959	835,398	
1978	101,402	101,575	142,352	21,679	367,007	675,231	
1977	73,516	61,619	114,696	14,657	241,488	506,304	
1976	65,274	56,590	107,156	14,402	243,422	481,769	
1975	59,340	56,754	99,654	15,330	231,128	478,890	
1974	36,732	35,081	63,663	9,880	145,356	316,443	
1973	26,708	22,143	42,584	6,186	97,621	217,308	
1972	18,903	14,587	33,330	5,996	72,816	174,614	
1971	15,780	11,592	29,966	6,382	63,720	161,636	(3)
1970	10,906	7,281	22,714	5,281	46,182	137,441	(3)
1969	13,050	14,247	30,169	5,923	63,389	155,076	(3)
1968	24,772	29,291	43,266	5,649	102,978	211,009	(3)
1967	18,521	28,395	38,099	5,691	90,706	188,197	(3)
1966	15,302	21,768	28,069	5,576	70,715	162,289	(3)

(1) Includes all costs associated with the purchase of fertilizer and, where applicable, fertilizer application

(2) Forecast

(3) Does not includes Newfoundland in the total

Source: Statistics Canada

APPENDIX: ADDRESSES OF DATA SOURCES

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Quebec Fertilizer
Manufacturers' Association
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H1S 2Z2
(514) 324-5081

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The Potash and Phosphate
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Suite 704
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